

Message Text

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ACTION SS-25

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TAGS: PARM, US, UR

SUBJECT: TTBT/PNE NEGOTIATIONS - INFORMATION EXCHANGE EXPERTS
GROUP

TTBT/PNE DELEGATION MESSAGE NUMBER FORTY-SEVEN

1. GROUP VI - INFORMATION EXCHANGE - MET ON JULY 1 AND 3. GROUP HAS NOW COMPLETED INITIAL REVIEW OF EACH ITEM. SOVIETS WISH TO DEFER CONSIDERATION OF ANY ITEM OF INFORMATION THAT IS DIRECTLY CONNECTED WITH OBSERVERS, AND IT WAS SO AGREED. THESE ITEMS ARE (SEE MOSCOW 8954, PARA 6, FOR COMPLETE WORDING) "C", "D", "J", AND "S".

2. US EXPERTS PROPOSED THAT ITEM "N" BE WITHDRAWN, TO WHICH SOVIETS READILY AGREED. (THIS INFORMATION COULD GIVE SOVIETS DETAILS OF US DEVICE DESIGN.)

3. WITH RESPECT TO ITEM "A", IT WAS AGREED THAT INFORMATION SHOULD BE EXCHANGED, BUT QUESTION AS TO SPECIFIC INFORMATION WAS REFERRED TO GROUP II.

4. TWO SIDES HAVE AGREED TO PRESENT NEW FORMULATIONS OF WORDING OF ITEMS "B" AND "1" AT NEXT MEETING, WHICH SET FOR JULY 7. DISCUSSION OF ITEM "K" WILL BE DEFERRED PENDING THIS REFORMULATION.

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5. US PROPOSED NEW FORMULATION FOR ITEM "O", BUT AS PETROV WAS NOT PRESENT JULY 3, DISCUSSION WAS DEFERRED. NEW FORMULATION: "RADIATION SURVEYS WHICH ARE TAKEN FOR SUPPLEMENTARY ESTIMATES OF FISSION YIELD SHOULD BE PROVIDED TO THE VERIFYING SIDE."

6. ITEM "P" WAS REWRITTEN FOR CLARIFICATION AS FOLLOWS: "THE VERIFYING SIDE WILL PROVIDE TO THE SIDE CARRYING OUT THE EXPLOSION, ELECTRICAL AND MECHANICAL DESIGN INFORMATION AND INSTALLATION INSTRUCTIONS CONCERNING THE ELECTRICAL EQUIPMENT BROUGHT BY THE VERIFYING SIDE FOR THE PURPOSE OF YIELD DETERMINATION. THE ELECTRICAL AND MECHANICAL DESIGN INFORMATION SHALL BE PROVIDED IN SUFFICIENT DETAIL TO PERMIT DUPLICATION OF THE EQUIPMENT BY THE HOST PARTY." SOVIET SIDE SUGGESTED THAT HOST SIDE WOULD BUILD, ACCORDING TO EXCHANGED INFORMATION, EQUIPMENT TO BE USED FOR CLOSE-IN YIELD MEASUREMENTS. US SIDE SAID THIS WAS UNACCEPTABLE. SOVIET SIDE THEN SAID IT WOULD LIKE TO THINK FURTHER ABOUT THIS ITEM.

7. SOVIETS PROPOSED FOLLOWING WORDING FOR ITEM "G": "MEASUREMENT OF THE DEVICE CANNISTER WHEN USING SLIFER OR METHODS SIMILAR TO SLIFER, AND WHEN THE CANNISTER IS LONGER THAN 25 METERS." US EXPERTS WANTED TO THINK ABOUT THE NUMBER 25.

8. AGREEMENT HAS BEEN REACHED ON SEVERAL ITEMS WITH WORDING AS BELOW. EACH ITEM REQUIRED MINOR WORDING CHANGES.

"E" - REVIEW OF PREVIOUS EXPERIENCE, INCLUDING EXPERIMENTAL DATA, USED TO DETERMINE DIMENSIONS OF CRATER FORMATION FOR THE GEOLOGIC MEDIA IN WHICH CRATERS WILL BE FORMED FOR THE PURPOSE OF DETERMINING YIELDS OF CHARGES BY EXTERNAL MEASUREMENTS.

"F" - PRE-SHOT TOPOGRAPHIC MAP OF AREA TO BE CRATERED AT SCALE OF 1:1000 AND WITH CONTOUR INTERVALS OF 0.5 OR 1.0 METERS AS APPROPRIATE.

"G" - POST-SHOT TOPOGRAPHIC MAP OF CRATERED AREA AT SCALE OF 1:1000 WITH CONTOUR INTERVALS OF 0.5 OR 1.0 METERS AS APPROPRIATE.

"H" AND "I" - FOLLOWING AGREEMENT ON ITEM "G", ITEMS "H" AND "I" WERE WITHDRAWN.

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"M" - BEFORE THE SHOT, FOR THE PURPOSES OF ORIENTATION, A GENERAL ACCESS SCHEDULE FOR ACCESS TO THE CRATER AREA TO COLLECT MELT SAMPLES AFTER THE EXPLOSION.

"R" - DESCRIPTION OF MATERIALS, INCLUDING DENSITY, USED TO STEM EMPLACEMENT HOLE WHEN SLIFER OR SIMILAR METHODS ARE USED.

9. BEZUMOV OFFERED FOLLOWING TEXT THAT WOULD BE USED IN JOINT

REPORT OF GROUP VI. US SIDE SAID THAT TEXT WAS NOT ACCEPTABLE IN ITS PRESENT FORM; ESPECIALLY, CONCEPT OF INDIVIDUAL EXPLOSIONS IN EXCESS OF THE THRESHOLD, AND APPLICATION OF FISSION YIELD CRITERION ONLY FOR SINGLE EXPLOSIONS OVER 150 KT.

"THIS INFORMATION RELATES TO CASES WHERE THE YIELD OF A SINGLE EXPLOSION IS NEAR THE THRESHOLD OR EXCEEDS IT, OR WHEN THE YIELD OF A GROUP EXPLOSION EXCEEDS THE THRESHOLD WHILE THE YIELD OF INDIVIDUAL EXPLOSIVE DEVICES IN A GROUP CANNOT BE DETERMINED BY THE TELESEISMIC METHOD, THEN IN SUCH CASES THE USE OF THE FOLLOWING METHODS IS PRESUMED:

A. MEASURING THE GROUND MOTION;

B. WITH THE MEASUREMENT OF THE CHANGES OF THE RADIUS OF SHOCK WAVES VERSUS TIME (INCLUDING SLIFER METHOD);

C. OF THE MEASUREMENT OF CRATERS FORMED BY AN EXPLISON; AND,

D. ALSO PRESUMED IS THE DETERMINATION OF THE FISSION YIELD WITH THE TAKING OF MELT SAMPLES (WHEN THE YIELD OF A SINGLE INDIVIDUAL EXPLOSION EXCEEDS THE THRESHOLD OF THE LIMITATIONS OF NUCLEAR WEAPON TESTS)"

10. AS BACKGROUND INFORMATION, DELEGATION REQUESTS DATA ON TYPICAL ACCURACY OF DOWNHOLE SURVEYS AS A FUNCTION OF HOLE DEPTH. SPECIFIC EXAMPLES FOR EMPLACEMENT AND INSTRUMENT HOLES FOR PLOWSHARE AND WEAPON TESTS WOULD BE USEFUL.
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